

This listing of claims will replace all prior versions, and listings, of the claims in this application:

**Listing of Claims**

Claim 1 (currently amended): A computer-implemented method, comprising the steps of:

establishing a plurality of virtual machines;

establishing a plurality of partitions of processor time;

assigning each virtual machine of the plurality of virtual machines to a partition of the plurality of partitions;

running, on a single processor, each virtual machine during its assigned partition;

and

determining whether a virtual machine ~~has any action to perform during its assigned partition and will [[thus]] be inactive during its assigned partition.~~

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (original): The method of claim 1, wherein said assigning step takes into account results of prior determining steps in making assignments of virtual machines to partitions.

Claim 5 (canceled)

**Claim 6 (original):** The method of claim 1, further comprising the step of placing the single processor into a reduced power mode during a partition assigned to a virtual machine that has been determined to be inactive by said determining step.

**Claim 7 (canceled)**

**Claim 8 (canceled)**

**Claim 9 (original):** The method of claim 6, wherein the reduced power mode is terminated at the end of the partition assigned to the inactive virtual machine.

**Claim 10 (original):** The method of claim 1, further comprising the step of reassigning, to another virtual machine, a partition previously assigned to a virtual machine that has been determined to be inactive by said determining step.

**Claim 11 (original):** The method according to claim 10, wherein said reassigning step assigns a partition associated with an inactive virtual machine to the virtual machine assigned to the next partition.

**Claim 12 (original):** The method according to claim 10, wherein said reassigning step assigns a partition associated with an inactive virtual machine to the next occurring partition that has been assigned to a virtual machine determined not to be inactive.

**Claim 13 (currently amended): A computing apparatus, comprising:**

a memory component storing code establishing a plurality of virtual machines, establishing a plurality of partitions of processor time, assigning each virtual machine of the plurality of virtual machines to a specific partition of the plurality of partitions, and determining whether a virtual machine has ~~any action to perform during its assigned partition and will [[thus]]~~ be inactive during its assigned partition;

a processor, coupled with said memory component, said processor being capable of running each virtual machine during its assigned partition and of running code stored on said memory component; and

wherein said memory component also stores code placing said processor into a lower power mode during a partition assigned to an inactive virtual machine.

**Claim 14 (original): The apparatus according to claim 13, wherein said processor comprises an embedded, low power processor.**

**Claim 15 (canceled)**

**Claim 16 (canceled)**

**Claim 17 (canceled)**

**Claim 18 (canceled)**

Claim 19 (currently amended): A computing apparatus, comprising:

a memory component storing code establishing a plurality of virtual machines, establishing a plurality of partitions of processor time, assigning each virtual machine of the plurality of virtual machines to a specific partition of the plurality of partitions, and determining whether a virtual machine will be inactive such that it will not be performing an action during its assigned partition;

a processor, coupled with said memory component, to run each virtual machine during its assigned partition and to run code stored on said memory component; and  
wherein said memory component also stores code activating a subsequent virtual machine during a partition assigned to an inactive virtual machine.

Claim 20 (currently amended): A computing apparatus, comprising:

means for storing code establishing a plurality of virtual machines, establishing a plurality of partitions of processor time, assigning each virtual machine of the plurality of virtual machines to a specific partition of the plurality of partitions, and determining whether a virtual machine ~~has any action to perform~~ will be inactive during its assigned partition;

means for processing, coupled with said means for storing, said means for processing running each virtual machine during its assigned partition and running code stored on said means for storing; and

wherein said means for storing also stores code placing said means for processing into a reduced power mode for the duration of a partition that has been determined to have an inactive virtual machine.

Claim 21 (currently amended): A computing apparatus, comprising:

means for storing code establishing a plurality of virtual machines, establishing a plurality of partitions of processor time, assigning each virtual machine of the plurality of virtual machines to a specific partition of the plurality of partitions, and determining whether a virtual machine has ~~any action to perform~~ will be inactive during its assigned partition;

means for processing, coupled with said means for storing, said means for processing running each virtual machine during its assigned partition and running code stored on said means for storing; and

wherein said means for storing also stores code reassigning, to another virtual machine, a partition previously assigned to a virtual machine that has been determined to be inactive.

Claim 22 (currently amended): A computer-readable storage medium, comprising:  
a computer-executable code for establishing a plurality of virtual machines,  
establishing a plurality of partitions of processor time, assigning each virtual machine of  
the plurality of virtual machines to a specific partition of the plurality of partitions,  
determining whether a virtual machine will be inactive such that it will not be performing  
an action during its assigned partition, and for activating a subsequently scheduled virtual  
machine for the duration of a partition that has been determined to have an inactive  
virtual machine.

Claim 23 (currently amended): A computer-readable storage medium, comprising:  
a computer-executable code for establishing a plurality of virtual machines,  
establishing a plurality of partitions of processor time, assigning each virtual machine of  
the plurality of virtual machines to a specific partition of the plurality of partitions,  
determining whether a virtual machine will be inactive such that it will not be performing  
an action during its assigned partition, and for activating a reduced power mode for the  
duration of a partition that has been determined to have an inactive virtual machine.

Claim 24 (currently amended): A computer-readable storage medium, comprising:

a computer-executable code to establish a virtual machine schedule for activating a plurality of virtual machines, to determine whether a scheduled virtual machine will be inactive such that it will not be performing an action during its scheduled activation time, and to initiate a reduced power mode for the duration of an inactive virtual machine's scheduled activation time.

Claim 25 (currently amended): A computer-readable storage medium, comprising:

a computer-executable code to establish a virtual machine schedule for activating a plurality of virtual machines, to determine whether a scheduled virtual machine will be inactive such that it will not be performing an action during its scheduled activation time, and to initiate reassignment, to another virtual machine, of a partition scheduled activation time previously assigned to a virtual machine that has been determined to be inactive.

Claim 26 (currently amended): A computer-implemented method, comprising the steps of:

establishing a virtual machine schedule for activating, on a single processor, a plurality of virtual machines;

determining whether a scheduled virtual machine will be inactive such that it will not be performing an action during its scheduled activation time; and

initiating processor entry of a reduced power mode for the duration of an inactive virtual machine's scheduled activation time.

Claim 27 (currently amended): A computer-implemented method, comprising the steps of:

establishing a virtual machine schedule for activating, on a single processor, a plurality of virtual machines;

determining whether a scheduled virtual machine will be inactive such that it will not be performing an action during its scheduled activation time; and

initiating reassignment of an inactive virtual machine's scheduled activation time to a virtual machine determined to be active.

Claim 28 (currently amended): A computer-implemented method, comprising the steps of:

establishing a plurality of JAVA virtual machines;

establishing a plurality of partitions of processor time;

assigning each JAVA virtual machine of the plurality of JAVA virtual machines to a partition of the plurality of partitions;

running, on a single embedded low power JAVA processor, each JAVA virtual machine during its assigned partition;

determining whether a JAVA virtual machine to be run ~~has any action to perform during its assigned partition and will~~ [[thus]] be inactive during its assigned partition;

placing the single embedded low power JAVA processor into a reduced power mode during a partition assigned to the JAVA virtual machine that has been determined to be inactive by said determining step; and

exiting the reduced power mode at the end of the partition assigned to the inactive JAVA virtual machine and placing the single embedded low power JAVA processor into a higher power mode.

**Claim 29 (new)** The method of claim 1, wherein said determining step determines whether a virtual machine will be inactive by checking a status field for a halt code.

**Claim 30 (new)** The method of claim 29, wherein the halt code indicates the occurrence of an error.

**Claim 31 (new)** The method of claim 29, wherein the halt code indicates that a virtual machine has not loaded.

**Claim 32 (new)** The method of claim 29, wherein the halt code indicates that a virtual machine execution error has occurred.

**Claim 33 (new)** The method of claim 29, wherein the halt code indicates that a processor specific error has occurred.

**Claim 34 (new)** The method of claim 29, wherein the halt code indicates that a partition time limit has been exceeded.

Claim 35 (new) The method of claim 29, wherein the halt code indicates that a partition space restriction has been exceeded.

Claim 36 (new) The method of claim 29, wherein the halt code indicates that a power down handler did not complete successfully.

Claim 37 (new) The method of claim 29, wherein the halt code indicates an invalid initialized data block.